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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/004,113

DATE: 03/25/2002 15

TIME: 16:11:47

Input Set : A:\A70970.ST25.txt

- 3 <110 APPLICANT: Engelhard, Eric
- Morris, David
- 6 <120 TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER
- 8 <130> FILE REFERENCE: A-70970/RMS/DCF
- 10 -: 140 CURRENT APPLICATION NUMBER: US 10/004,113
- 11 -141 CURRENT FILING DATE: 2001-10-23
- 13 -150 PRIOR APPLICATION NUMBER: US 09/747,377
- 14 (151) PRIOR FILING DATE: 2000-12-22
- 16 150 PRIOR APPLICATION NUMBER: US 09/798,586
- 17 151 PRIOR FILING DATE: 2001-03-02
- 19 :160 · NUMBER OF SEQ ID NOS: 61
- 21 4170 SOFTWARE: PatentIn version 3.1
- 23 210 / SEQ ID NO: 1
- 24 -: 211 > LENGTH: 32767
- 25 <212> TYPE: DNA
- 26 <213> ORGANISM: Mus musculus
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- 19 <221> NAME/KEY: misc_feature
- 30 <222> LOCATION: (2178)..(2262)
- 31 < 223 > 0THER INFORMATION: "n" at positions 2178 through 2262 can be any base.
- 34 <220> FEATURE:
- 35 <221> NAME/KEY: misc_feature
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- 37 <223> OTHER INFORMATION: "n" at positions 14746 through 15383 can be any base.
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123 125 127 129 131 133 135 137 139 141 143 145 147 149 151 153 155 157 161 163	agtectggae cctcctgagt nnnnnnnnn getgteatee ettggtttae taaaatgett etggetgtgg gattettgag acagagaaae taaceccagt cctatetatg acegaggaaa aaacaaaaae ttattetgtg cegggtaett atgaacttgt attettgage aaactetggg tgegtaggte gteagaggga gggetagtgg	aggetetgge getgaggnn nnnnnnnn eageaetggg ttgagaetet teaggtggeg ttegaggea ectatettgg getgggtaaa agetetaggt gacacecaag taacaaaace tgtatgggta eggetetggg	tgtgtagget nnnnnnnn nnnnnnnn gaggttgaag gteteaaaaa egagggaaee catgeettta geetggteta aaaacaaaae eaggggaagg etggggagae gttgatgeae gatgatgeae gatgatgaeae eaaeetat ttteaeetge gaagaggaea tttgttgtgt ggagaeagea gagtaaetea aggeaggaeg	nnnnnnnnn nnnnnnnnn caggaaggag gaccaaacca tgagtttcat atcccatcac cagactgagt aacaaaaaa tgaatacatca agcctgtcaa gggcaagtgt tttgctgtgg atgaatatct tcaaatcccg ggatcctcta cccatgtttt ctaggcctca gtggtggtaa gggcctgggg tgggtcctcc	tttetateed nnnnnnnn nnetgtggtg aateacaggt gggaetggga cetggaacte teaggagaea teeaggatag aaetaggtgt teegggatte ateaatgeaa geacacacac tggtggtgt aeetgtgtag tagaactgga aaggaeaggea gtaagagea gtteetgga tagactgga	cotgoctcag nnnnnnnn gctcccgagt tcaaggccag ggatggccag gaggcaggca ccaggtctac ggctagcctg gcaggctgt gcaggtgaca acaccacagc taaatttat catatacatg gttacagaaa aggactctga ccaggcctga ccaggcctga gctggcctga gctggcctga gctgcagagaaa taccctcttg gctgggcctg gctctgatgg	2160 2220 2280 2340 2400 2460 2520 2580 2640 2760 2820 2880 2940 3060 3120 3180 3240 3360 3360
123 127 129 131 133 135 137 139 141 143 145 147 149 151 153 157 159 161 163 165	agtectggae cctcctgagt nnnnnnnn getgteatee ettggtttae taaaatgett etggetgtgg gattettgag acagagaaae taaceccagt cctatetatg acegaggaaa aaacaaaaae ttattetgtg cegggtaett atgaacttgt attettgage aaactetggg tgegtaggte gteagaggga gggetagtgg	aggetetgge getgaggnn nnnnnnnn cageaetggg ttgagaetet teaggtggeg ttegaggea cetatettgg getgggtaaa agetetaggt gacacecaag taacaaaace tgtatgggta cacagataca ccatgteeg cacagataca ccatgteeg ggcaggega ggcaggega gggeteagec ccagtggta	tgtgtagget nnnnnnnn nnnnnnnn gaggttgaag gteteaaaaa egagggaaee catgeettta geetggteta aaaacaaaae eaggggaagg etggggagae gttgatgeae gatgatgeae gatgatgaea eaaceatat ttteaeetge gaagaggaea tttgttgtgt ggagaeagea gagtaaetea aggeaggaeg eaggeaggae	nnnnnnnnn nnnnnnnnn caggaaggag gaccaaacca tgagtttcat atcccatcac cagactgagt aacaaaaaa tgaatacatca agcctgtcaa gggcaagtgt tttgctgtgg atgaatatct tcaaatcccg ggatcctcta cccatgtttt ctaggcctca gtggtggtaa gggcctgggg tgggtcctcc tgaggggccc	tttetateed nnnnnnnn nnetgtggtg aateacaggt gggaetggga cetggaacte teaggagaea teeaggatag aaetaggtgt teegggatee ateaatgeaa geacacacac tggtggtgt aeetgtgtag aaggaeagge aaggaeagge tagaactgga aggaeagge gtaagagea gtteetgga tagaecea	cotgoctcag nnnnnnnn gctcccgagt tcaaggccag ggatggccag gaggcaggca ccaggtctac ggctagcctg gcaggctgt gcaggtgaca acaccacagc taaatttat catatacatg gttacagaaa aggactctga acggcctga ccaggcctga gctggcctga gctggcctga gctggcctga aggcagagaa taccctcttg gctgggcctg gctggcctg tgaccacaga	2160 2220 2280 2340 2400 2460 2520 2580 2640 2760 2820 2880 2940 3060 3120 3180 3240 3360 3420
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 03/25/200 PATENT APPLICATION: US/10/004,113 TIME: 16:11:47 DATE: 03/25/2002

Input Set : A:\A70970.ST25.txt

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175	ataaattgat	ctatttaact	atgtagatat	caatccattg	atctatgtat	ctatcaactg	3720
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2019	aacagcccta	ctgagccatc	ctcctgggac	agcctctcag	gecaggeett	ctgtgtette	4740
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<i>≟</i> 1.7	ctcagcagga	ggatcaggag	ttcaagggca	tcctcagcaa	catagtaagt	ctatggagct	4980
<i>1</i> 19	agcctgggct	acacagatge	cattacaaaa	aaaaaaaaa	aagtaaaaaa	aaaatcttgg	5040
221	gatatggggg	atgggtgggt	gaactgtgta	gcccagggag	teactactgg	ttcctttgga	5100
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239	taccagactc	agccaactgc	agaattccag	tccataacgg	cacctccttt	cctttctcag	5640
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					taggggctgg		6180
					ccagcaacca		6240
					tgtctggaga		6300
					aaaaaagaaa		6360
265	aaaaaggtag	aggaggagga	agaggaggag	gagacggcaa	gacaaaacta	actacatagc	6420
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RAW SEQUENCE LISTING

DATE: 03/25/2002 TIME: 16:11:47

PATENT APPLICATION: US/10/004,113

Input Set : A:\A70970.ST25.txt
Output Set: N:\CRF3\03252002\J004113.raw

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273	gggtgtgact	cagtgcctag	aatcccccag	ggaggggctg	ggggcgtggc	tcagtggtag	6660
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283	ggctgtgggt	gtattatctg	ttcccaagga	ctgcacatga	aatgagaaca	atgaaggett	6960
285	caattotact	gagatgaacc	teaattetee	acagatgate	tcacccagag	ccagatggaa	7020
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295	gaggttagtg	atgggtaact	ttctccagag	ctctccacct	tagttttatt	gtctgtgtgt	7320
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305	gcctccagag	tactgggatt	aaaggtgtgc	accactacca	cccagtttaa	aattotaaaa	7620
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311	gageteacte	actgctgage	ccccacttta	gatttgagtc	cotogtactg	aagetgagtt	7800
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329				catgccctga			8340
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/004,113

DATE: 03/25/2002 TIME: 16:11:47

Input Set : A:\A70970.ST25.txt

Output Set: N:\CRF3\03252002\J004113.raw

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375			ttggagatca				9720
3 17	aacagttaaa	tggactagca	aacacgaacg				9780
379	gagtecagec	tgagccacac	agatacttca	agoctagtot	gagttacaga	gtgagacccg	9840
331			acteegggga				9900
			ggtaggggcg				પ્યત્રે6Ü
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439			ccctgcgact				11640
441			tcccctcgct				11700
			cacggctggg				11760
			gatgcggcgg	_			11820
			cccaaccctc				11880
			gcctggctct				11940
			ggcgccctcc				12000
			caaaagcctc				12060
			ttgcagctct				12120
			gcatgggcat				12180
			ctttgctgcc				12240
	-		ccaggctttg			_	12300
		_	aatgcagagg				12360
	J JJ J 7		J J J J	, , , , , , , ,		, , , -	



Use of n and a or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using night has

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/004,113

DATE: 03/25/2002 TIME: 16:11:48

Input Set : A:\A70970.ST25.txt

```
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:127 M:341 W. (46) "n" or "Xaa" used, for SEQ ID#:1
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:545 M:341 W (46) "n" or "Xaa" used, for SEQ ID#:1
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L.549 M.341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L.553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L.559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L.561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L.563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L.991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:993 M.341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1005 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1047 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
```

VERIFICATION SUMMARY

DATE: 03/25/2002

PATENT APPLICATION: US/10/004,113 TIME: 16:11:48

Input Set : A:\A70970.ST25.txt

Output Set: N:\CRF3\03252002\J004113.raw

L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1